



Practitioner's Docket No. U 016390-5

**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent application  
of \_\_\_\_\_  
Inventor(s)  
for \_\_\_\_\_  
Title of invention

**OR**

In re application of: **Alexandr Vasilievich GARMONOV, et al.**  
Serial No.: **10/591,719** Group No.:  
Filed: **September 5, 2006** Examiner:  
For: **SIGNAL TRANSMITTING METHOD (VARIANTS) AND DEVICE FOR CARRYING OUT  
SAID METHOD**

**Commissioner for Patents**  
**P. O. Box 1450**  
**Alexandria, VA 22313-1450**

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
WITHIN THREE MONTHS OF FILING OR  
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. 1.97(b))**

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**CERTIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10\***

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**37 C.F.R. 1.8(a)**

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**William R. Evans**

*(type or print name of person certifying)*

\* Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(j). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

**NOTE:** 37 C.F.R. 1.98(b):

- (1) *Each U.S. patent listed in an information disclosure statement must be identified by inventor, patent number, and issue date.*
- (2) *Each U.S. patent application published listed in an information disclosure statement shall be identified by applicant, patent application publication number, and publication date.*
- (3) *Each U.S. application listed in an information disclosure statement must be identified by the inventor, application number, and filing date.*
- (4) *Each foreign patent or published foreign patent application listed in an information disclosure statement must be identified by the country or patent office which issued the patent or published the application, an appropriate document number, and the publication date indicated on the patent or published application.*
- (5) *Each publication listed in an information disclosure statement must be identified by publisher, author (if any), title, relevant pages of the publication, date, and place of publication.*

**WARNING:**

*No extension of time can be had under 37 C.F.R. § 1.36 (a) or (b) for filing an IDS. 37 C.F.R. § 1.97(f).*

**NOTE:** The "filing date of a national application" under 37 C.F.R. 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark Office, the filing is defined in 37 C.F.R. 1.53(b) as "the date on which: (1) A specification containing a description pursuant to § 1.71 and at least one claim pursuant to § 1.75; and (2) any drawing required by § 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41." 37 C.F.R. 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the filing of the following: (1) the national fee; (2) a copy of the international application, unless already sent by the International Bureau, and an English translation if filed in another language; (3) amendments under PCT Article 19, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the international preliminary examination report, if such annexes were made in another language. 37 C.F.R. 1.97(b)(2).

### **IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT**

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. 1.97(b).

**NOTE:** "No certification or fee is due when the filing is made within the above time period. It is advisable to ensure that no Office action has been mailed if the disclosure statement is delayed until after three months from filing."

**NOTE:** "An information disclosure statement will be considered to have been filed on the day it was received in the Office, or on an earlier date of a mailing if accompanied by a properly executed certificate of mailing under 37 C.F.R. 1.8, or Express Mail certificate under 37 C.F.R. 1.10. An office action is mailed on the date indicated in the Office action." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

**NOTE:** "The term 'national application' includes continuing applications (continuations, divisions, continuations-in-part) so three-months will be measured from the actual filing date of an application as opposed [sic] to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

**NOTE:** "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirements (37 C.F.R. 1.142) or just a requirement for additional fees to have a claim considered (37 C.F.R. 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not mailed until six months later on July 1, the examiner would be required to consider any proper information disclosure statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

**WARNING:** "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 C.F.R. 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63). But see § 103(b) and (c), limited suspension of action in a continued prosecution application (CPA) filed under § 1.53(d) and in a request for continued examination (RCE) under § 1.114.

If a fee is required, please charge deposit account 12-0425.



A handwritten signature in black ink, appearing to read "William R. Evans".

**SIGNATURE OF PRACTITIONER**

Reg. No.

William R. Evans, 25858, (212) 708-1930  
(type or print name of practitioner)

Tel. No.: ( )

P.O. Address

Customer No.:

c/o Ladas & Parry LLP  
26 West 61<sup>st</sup> Street  
New York, N.Y. 10023



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:      Alexandr Vasilievich GARMONOV, et al.

Serial No.: 10/591,719      Group No.:

Filed: September 5, 2006      Examiner:

For: SIGNAL TRANSMITTING METHOD (VARIANTS) AND DEVICE FOR  
CARRYING OUT SAID METHOD

Attorney Docket No.: U 016390-5

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

We draw the attention of the Examiner to the attached English-language version of an Action or International-type Search Report from a foreign office in respect of counterpart Application No. PCT/RU2005/000087 that indicates the degree of relevance found by the foreign office. The Action or Search Report makes consideration of any non-English art required. MPEP 609.

**CERTIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10\***

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**37 C.F.R. 1.8(a)**

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Signature

William R. Evans

(type or print name of person certifying)

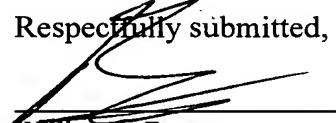
Date: December 14, 2006

**\*WARNING:** Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).  
"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

Form PTO-1449 is also attached with the above and other reference copies (first page only for U.S. patent publications).

Applicant's overseas representative provides the attached "Information Disclosure Statement for USPTO" with comments on the references.

Respectfully submitted,



\_\_\_\_\_  
William R. Evans  
c/o Ladas & Parry LLP  
26 West 61<sup>st</sup> Street  
New York, New York 10023  
Reg. No. 25858  
Tel. No. (212) 708-1930

FORM PTO-1449 <i>O I P E</i> DEC 18 2006 U.S. PATENT & TRADEMARK OFFICE IAPG	U. S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO.  U 016390-5	SERIAL NO.  10/591,719
		APPLICANT Alexandr Vasilievich GARMONOV et al.	
		FILING DATE September 5, 2006	GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	REFERENCE DESIGNATION	DOCUMENT NUMBER	DATE	NAME	FILING DATE IF APPROPRIATE
	AA	4,933,952	06/1990	Albrieux et al.	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AB	99/07090	02/1999	WO		
	AC	99/63692	12/1999	WO		
	AD	92/00639	01/1992	WO		
	AE	2 192 094	10/2002	RU	X	
	AF	2 208 911	07/2003	RU		
	AG	2 145 152	01/2000	RU		

## OTHER ART (Including Author, Title, Date, Pertinent Dates, Etc.)

	AH	English Translation of RU 2 192 094 dated October 27, 2002
	AI	Baskakov, S. I. "Radio Circuits and Signals" Moscow "Vysshaya Skola" (1988) Second Edition, pp 211-212
	AJ	Kostie, Z. et al. "Estimation of the Parameters of a Multipath Channel Using Set-Theoretic Deconvolution" <i>IEEE Transactions on Communications</i> (1992) Vol. 40, No. 6, pp 1006-1011
	AK	Gonorovsky, I. S. "Radio Circuits and Signals" Moscow "Soviet Radio" (1977) Third Edition, page 177
	AL	Ehrenberg, J. E. et al. "Signal-Processing Techniques for Resolving Individual Pulses in a Multipath Signal" <i>Journal Acoustical Society of America</i> (1978) Vol. 63, No. 6, pp 1861-1865
	AM	Fujitsu "Enhance the Beamforming Feature of the Multiple Antenna Tx Diversity" <i>TSG-RAN</i> (2000) 1065, Working Group 1, No. 15, pp 1-8
	AN	Siemens "Advanced Closed Loop Tx Diversity Concept (eigenbeamformer)" <i>TSG-RAN</i> (2000) 0853, Working Group 1, No. 14, pp 1-12
	AO	Hewitt, A. et al. "An Autoregressive Approach to the Identification of Multipath Ray Parameters from Field Measurements" <i>IEEE Transactions on Communications</i> (1989) Vol. 37, No. 11, pp 1136-1143
	AP	Liberti, J. C. et al. "Smart Antennas for Wireless Communications - IS-95 and Third Generation CDMA Applications" <i>Prentice Hall PTR</i> (1999) Chapter 3, pp 81-116
	AQ	Dighe, P. A. et al. "Analysis of Transmit-Receive Diversity in Rayleigh Fading" <i>IEEE Transactions on Communications</i> (2003) Vol. 51, No. 4, pp 694-703
	AR	Jakes, J.C. "Microwave Mobile Communications" <i>IEEE Communications Society</i> (1974) pp 312-317
	AS	Luo, J. et al. "Error Probability Performance for W-CDMA Systems with Multiple Transmit and Receive Antennas in Correlated Nakagami Fading Channels" <i>IEEE Transactions on Vehicular Technology</i> (2002) Vol. 51, No. 6, pp 1502-1516

EXAMINER	DATE CONSIDERED
EXAMINER:	Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.